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In re Patent Application of

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GOLDSPINK et al.

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For: REPAIR OF NERVE DAMAGE

Examiner: Nichols, Christopher J.

\* \* \* \* \*

June 14, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUBMISSION OF FORMAL DRAWINGS**

Sir:

Enclosed herewith are eleven (11) sheets of formal, inked drawings for the above-identified application.

Respectfully submitted,

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Fig.1.

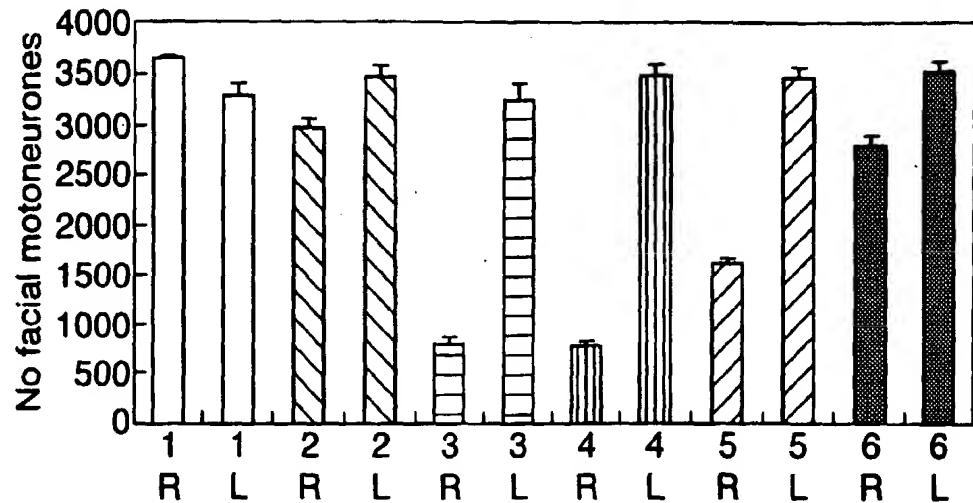


Fig.2a.

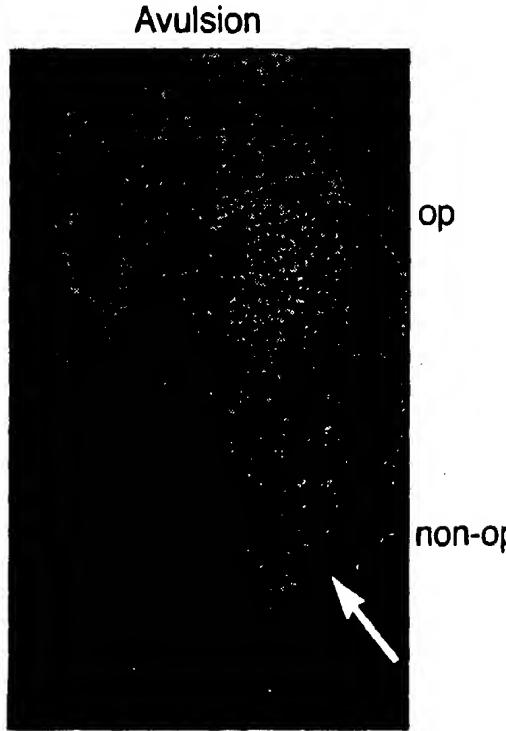
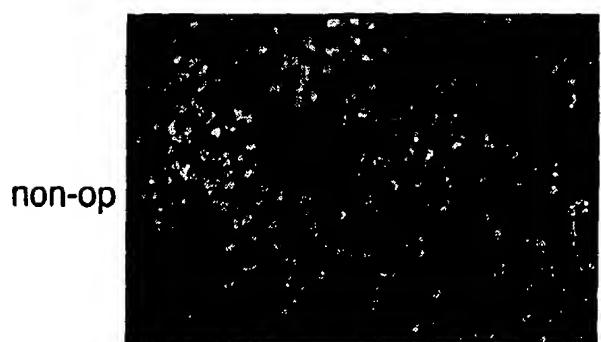


Fig.2b.



Fig.2c.

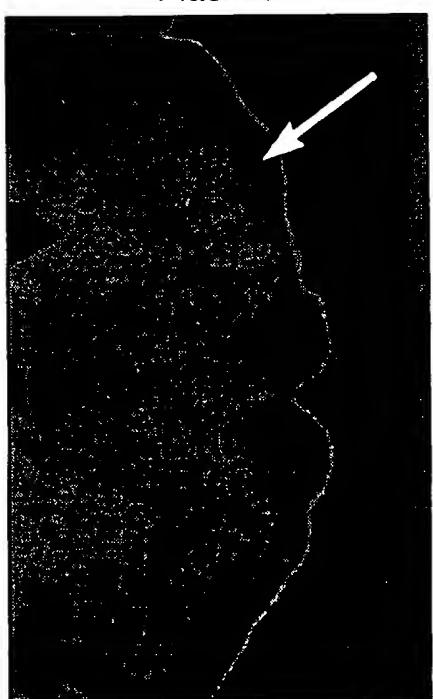


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**Fig.3a.**

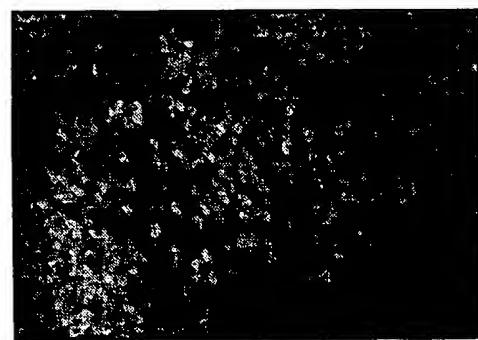
Plasmid



non-op

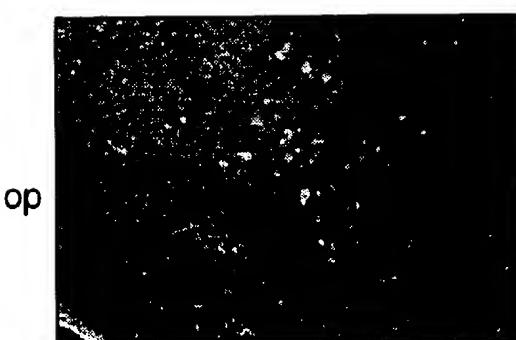
**Fig.3b.**

Plasmid

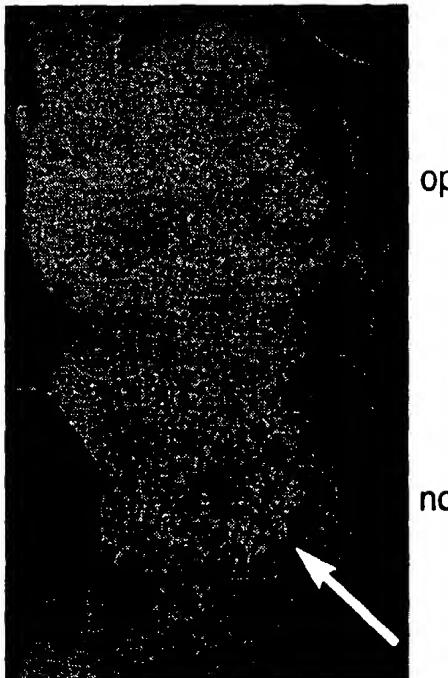


**Fig.3c.**

Plasmid



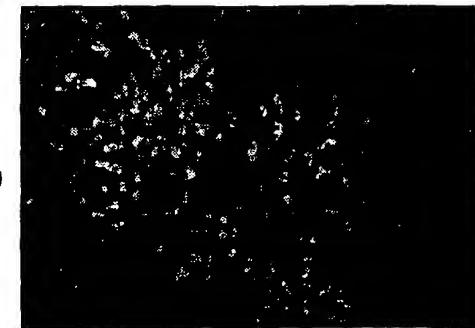
**Fig4a.**  
MGF Plasmid



**Fig4b.**  
MGF Plasmid



**Fig4c.**  
MGF Plasmid



5.

## CDNA sequence of Human MGF

Exon 3 CGACCCGGAGACGCTCTGGGGCTGACCTGGATGCTCTTACAGTTCTGTTGAGACAGGGCTTTATTTAACAAAGCCCCACAGGTATGGCTCCAGGAGTCGG  
Exon 4

AGGGGGCTCTAGACAGGGCATCGTGGATGAGGTGCTGCTTCGGAGCTGTGATCTAAGGAGGCTGGAGATSTATTGCGCACCCCCCTCAAAGCTGCCAAGTCAGGTCCGCTC

...CCACAACTAGAGGGACTGCAAGAAAACAAGAAACTACAGGATGTTAGAACACCCCTTCCTGCGACCTCAACAGGACACCCACCCCTTCCTGCGACCTCAACAGGAA

## Protein sequences of Human MCE

AcArat1aProGlnThrGlyIleAlaSerCysAspLeuArgArgLeuGluMetThrCysAlaProLeuIvsProAlaIvsSerAlaArg

Glutamyl

Fig. 6.

CDNA sequence of Rat MGF

GAGGGCACACAGACGGCAATTGTGGATGAGTGTGTTCCGGAGCTGTGACTGTGAGGGCTGCAAGCCTACAAAGTCAGCTCTT

CCATCGGGCCAGGCCACACTGACATGCCAAGACTCAGAACTCCAGCCCTATCGCACACAGAAAAGGAAGCTGCTCAAAAGGAGAAGGAAGGAAAGTTACACTT  
Exon 5 Exon 6

GAAGAACACAACTAGAGGAAGTGCAGGAAACAAAGAACCTACAGAAATGTAGGAGGCTCCGAGGAACAGAAAATGCCACGTACCCGAAGATCCTTGTGTTGA

ANTIC

protein sequence of Bat MCF

Lungulants

Fig. 7.

## CDNA sequence of Rabbit MGF

Protein sequence of rabbit MCF

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cDNA sequence of Human L. IgP-1

Protein sequence of Human IgG-1

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cDNA Sequence of Rat L. IGF-1

## Protein sequence of Bat 1. TGF-1

## Fig. 10.

### CDNA sequence of Rabbit L.IGF-1

Exon <sup>3</sup> GGACCCGGAGACGCTCTGGGGTGGCTGAGCTCTTCAGTTCTGCTGAGACAGGGGCTTTATTCAACAAAGCCCCACAGGATAACGGCTCCAGCAAGTCGGAGGGCACC  
TCAGAACAGGCATCGTGGATGGACTGAGTCGCTGCTTCCGGAGCTGTGATCTGAGGGCTGGAGATGTACTGTCACCCCTCAAGCCGGCAAAGGGAGGCCGCTCGTGCCTCCAGGCC  
Exon <sup>6</sup> ACACCGACATGCCAAGGAACTACATTGAAGAACACAAGTAGGGAGTAGGGAGTCAGGAAGAACACTACAGGATGTAGGAAGACCCCTCTGAGGAGTGAAGAAGGACA  
GGTACCCGCAGGACCCCTTGGCTCTGCACAGTACCTGTAACATTTGGAAATACCGGCCAAAAAATAAGTTGATCACATTCAAAAGATGGCATTCCCCAATGAAATAACACAAGTA  
AACATTC

### Protein sequence of Rabbit L.IGF-1

Exon <sup>3</sup> GlyProGluThrLeuCysGlyAlaGlnLeuValAspAlaLeuGlnPheValCysGlyAspArgGlyPheTyrPheAsnLysProThrGlySerSerArgArgAlaPr  
pGlnThrGlyIleValAspGluCysCysPheArgSerCysAspLeuArgLeuGluMetTyrCysAlaProLeuLysProAlaLysAlaAlaArgSerValArgAlaGlnArgH  
Exon <sup>6</sup> isThrAspMetProLysThrGlnLysGluValHisLeuLysAsnThrSerArgGlySerAlaGlyAsnLysAsnTyrArgMet

Fig. 11.

Hu	MGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Ala Pro Leu Lys Pro Ala Arg Ser Ala Arg Ser Val
Rat	MGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Val Arg Cys Lys Pro Thr Lys Ser Ala Arg Ser Ile
Rab	MGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Ala Pro Ala Lys Ala Arg Ser Val
Hu	IGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Ala Pro Ala Lys Ser Ala Arg Ser Val
Rat	IGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Val Arg Cys Lys Pro Thr Lys Ser Ala Arg Ser Ile
Rab	IGF	-	Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr	Cys Ala Pro Ala Lys Ala Arg Ser Val

Section 5

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Hu	MGF	-	Ser	Gln	Arg	Arg	Lys	G	ly	Ser	Thr	Phe	Glu	Glu	His	Lys
Rat	MGF	-	Leu	Gln	Arg	Arg	Lys	G	ly	Ser	Thr	Leu	Glu	Glu	His	Lys
Rab	MGF	-	Ser	Gln	Arg	Arg	Lys	G	ly	Ser	Thr	Phe	Glu	Glu	His	Lys
Hu	IGF	-	-----	-----	-----	-----	-----	-----	Glu	Val	His	Leu	Lys	Asn	Ala	Ser
Rat	IGF	-	-----	-----	-----	-----	-----	-----	Glu	Val	His	Leu	Lys	Asn	Ala	Gly
Rab	IGF	-	-----	-----	-----	-----	-----	-----	Glu	Val	His	Leu	Lys	Asn	Ala	Gly



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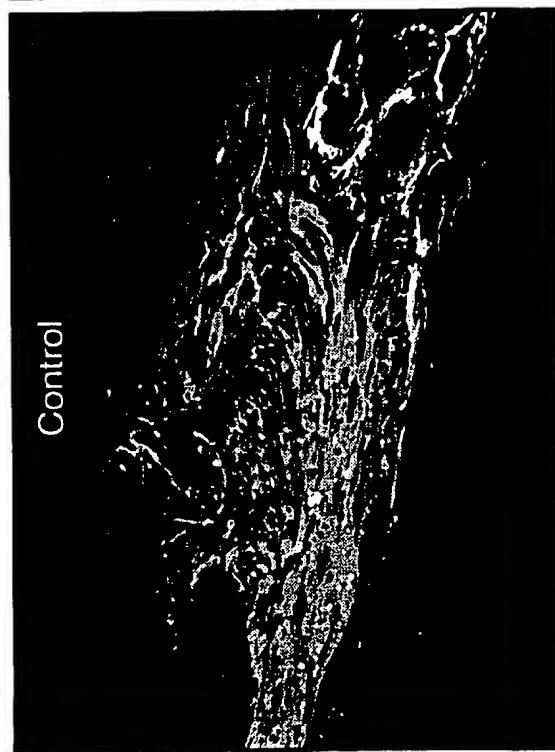
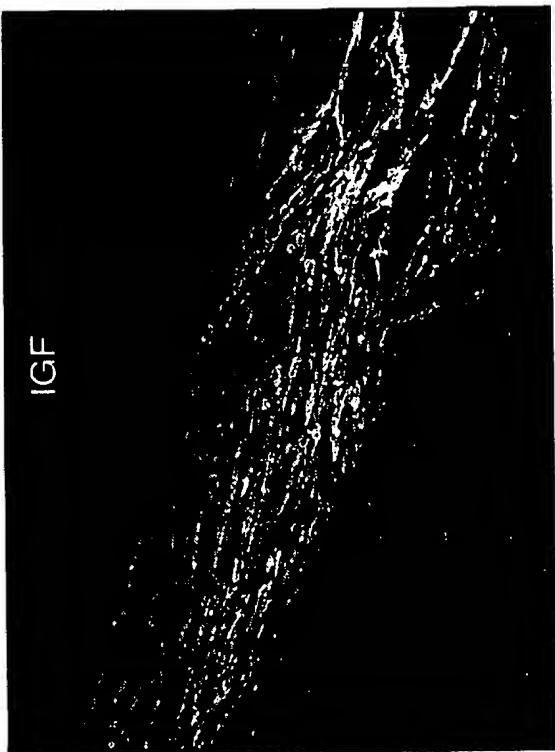
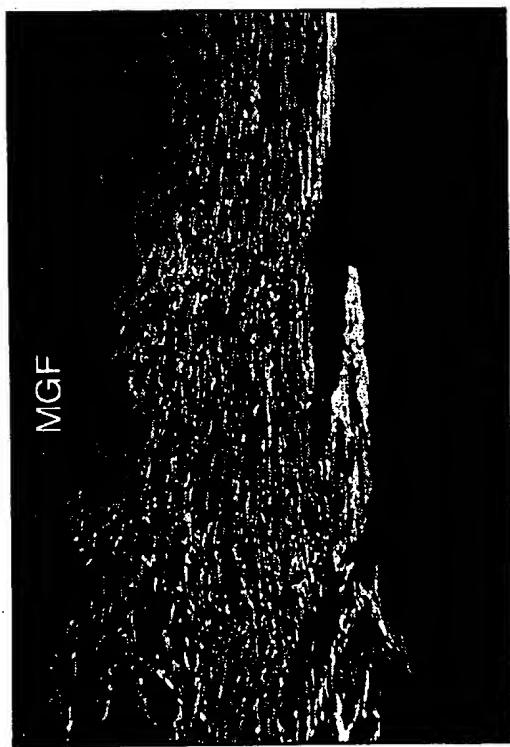


Fig.12.